MONTHLY REPORT

1 November - 30 November 1958

SYSTEMS ENGINEERING BRANCH ENGINEERING STAFF

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25X1A9A	
L 25X1C4A	2. Work was started on matching networks for coupling the output of the RS-16 to antennas in the Middle East. Investigations showed that the AN/SRA-20 antenna tuner might perform this function; therefore, one was purchased and an analysis of its performance into various lengths of antennas was begun.
25X1A 25X1A2G 25X1A9A 25X1A	3. A recent dispatch from suggests that two additional 200 kw Diesel generators will be needed to handle the extra load imposed at the receiving site by the new resturant and the expansion. When 1A2D2 was decided that one 100 kw generator would take care of this extra load; therefore, the suggestion of two 200 kw units came as quite a surprise. The Real Estate and Construction Division has approved the installation.
	4. An alarm system has been developed which will recognize the first normally encrypted word of a cable (CITE) if this word appears on the teletype tape in plain text. The system will immediately stop the transmitter-distributor before further information is sent and therefore will almost eliminate the possibility of a classified cable being transmitted in plain text. This device was successfully demonstrated in the OC conference room and is now undergoing tests in the Signal Center (See Project E-5138).

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	5. Specifications and a procurement memorandum were forwarded to MSB to initiate action to procure approximately \$260,000 worth of Teletype equipment. The equipment to be procured is of the Model 28 line and will be used for warehouse stock and in support of the KW-26 program which is scheduled to begin early next year.
	6. We have been advised by OC-S that a target date of February 1959
25X1A	has been established for the installation of a Teletape system Some time ago a Tiny Tot in the Headquarters Signal Center was modified for use with the Teletape Program. This modification included the installations of a second TD, a center feed unwind reel, and a tape take-up reel. This modification was performed in a hurry and is not final as far as the placement of the reel assemblies is concerned. Work is now in progress to clean up this portion of the modification and prepare installation drawings and instructions to forward
	7. Maintenance instructions for the VHF Mobile Communications System
25X1A6A 25X1A	have been prepared and have been translated into French. These instructions will be pouched in the immediate future.
25X1A	8. Heathkit voice operated relays were previously shipped to provide a "quick and dirty" automatic alarm feature for two way HF Radiotelephone system. These units will be replaced by the 25×1A5A1 EC-30-A Tone Dispatcher. This tone dispatcher was tested with the 55×1A5A1 SSB-1 and results showed it to be much more satisfactory and reliable than the Heathkit relays. The requirement for the alarm is such that the base station be able to contact any or all of the field stations and the
25X1A5A1	field stations contact only the base. It is estimated that the cost of the equipment will be in the neighborhood of \$5,000. 25X1A5A1
25X1A5A1	Ocrporation covering the development costs of a Model 28 version of our Tiny Tot. The cost of a prototype unit was \$29,700 with delivery in six months. This approach to develop a unit which would replace our Tiny Tot was abandoned in favor of a mechanical Combiner/Printer on which we have asked to submit a quotation covering the development costs for a prototype. The unit we have in mind would be a combination of Teletype's Two Tape to One Tape Combiner and their mechanical printer.
	10. In view of the anticipated continuing requirement for communi-
25X1C1E	

25X1A		
to s	12. The Drafting unit has prepared 97 drawings of which 19 were six field stations as part of BYRECI.	forwarded
	13. NEW PROJECTS	
	E-5139 - Investigation of Possibility of Increasing Speed of	
	Teletype Staff Communications E-5145 - Engineering of Antenna Matching Network for Operation	
	E-5144 - OC-SP Dual Electronic Power Supply	25X1C4A
	E-5146 - Field Alignment Procedure for 51-J Receivers	
	14. TRANSFERRED PROJECTS	0EV4
	E-5119 - Commercial Power Installation - Transferred to	25X1/
		25X1A9A
	15. INACTIVE PROJECTS	
05V4ACA	E-5085 - Communications Systems Planning, New Building E-5111 - Agent Radiotelephone Net -	25X1A6A
25X1A6A 25X1A2D2	E-5112 - Radio Station	23/1/10/
	E-5080 - Mobile Message Center E-5123 - Antenna Systems for	05)//0//
	E-5103 - Multiplex System for Base Station to Sub-Base	25X1C4A
	Stations Communications E-5130 - Miniaturized Test Equipment	
25X1A	E-5137 - Coaxial Output Network for the 231-D Transmitter	
	16. COMPLETED PROJECTS	

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